	Application No.	Applicant(s)	
Notice of Allowability	10/612,411	SHIMADA ET AL.	
	Examiner	Art Unit	
	Roberts Culbert	1763	
The MAILING DATE of this communication appeals claims being allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in or other appropriate common (IGHTS). This application is	n this application. If not included unication will be mailed in due cou	ırse. THIS
1. This communication is responsive to			
2. ⊠ The allowed claim(s) is/are <u>1-13</u> .			
3. $igotimes$ The drawings filed on <u>03 July 2003</u> are accepted by the Ex	xaminer.		
4. Acknowledgment is made of a claim for foreign priority una All b)	e been received. e been received in Application of the communication to file MENT of this application. Initted. Note the attached EXA es reason(s) why the oath of the submitted. Son's Patent Drawing Review. Is Amendment / Comment of the header according to 37 CF esit of BIOLOGICAL MATION.	on No d in this national stage application a reply complying with the require AMINER'S AMENDMENT or NOT r declaration is deficient. v (PTO-948) attached in the Office action of the drawings in the front (not the back 1.121(d). ERIAL must be submitted. Note	ements
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 1/28/04 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview So Paper No./ 98), 7. ☐ Examiner's	formal Patent Application (PTO-1 ummary (PTO-413), 'Mail Date Amendment/Comment Statement of Reasons for Allowa 	,

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Allowable Subject Matter

Claims 1-13 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art of record fails to teach or render obvious a method of manufacturing a liquid jet head including a passage-forming substrate which is made of a single crystal silicon substrate and in which at least one pressure generating chamber communicating with at least one nozzle orifice is defined, and at least one piezoelectric element which is provided on the passage-forming substrate through a vibration plate and made of a lower electrode, a piezoelectric layer and an upper electrode, the method comprising the steps of: forming the vibration plate and the piezoelectric element on one surface of the passage-forming substrate; thermally adhering a sealing plate which has a piezoelectric element holding portion for sealing the piezoelectric element therein, onto the passage-forming substrate; processing the passage-forming substrate to have a predetermined thickness; depositing an insulation film on other surface of the passage-forming substrate at lower temperature than that for adhering the passage-forming substrate and the sealing plate, and patterning the insulation film into a predetermined shape; and etching the passage-forming substrate using the patterned insulation film as a mask to form the pressure generating chamber.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

See U.S. Patents 5,922,218; 5956,829; 6109,736; 6,332,254; 6,334,244; 6,345424; and
6,382,781.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberts Culbert whose telephone number is (571) 272-1433. The examiner can normally be reached on Monday-Friday (7:30-4:00).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Mills can be reached on (571) 272-1439. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

R.Culbert

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